

Morbidity and Mortality

Weekly Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE

Prepared by the **COMMUNICABLE DISEASE CENTER** 634-5131

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ATLANTA 22, GEORGIA

Vol. 12, No. 22

PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED JUNE 1, 1963

MENINGOCOCCAL INFECTIONS - The 43 cases of meningococcal infections reported for the week ending June 1, 1963 brings the total of reported cases for the first 22 weeks to 1,267, approximately 8 percent above the corresponding total for any of the previous four years. The most notable increase in incidence has occurred in the State of California.

Cumulative cases of meningococcal infections for the first 22 weeks from 1959-1963 in the United States and for California alone, and total U. S. cases for the years 1959-1962 are shown in the table below:

Cases Through 22nd Week	1963	1962	1961	1960	1959
United States	1267	1065	1064	1175	1172
California	186	137	105	101	111
Annual Total					
United States	2133*	2232	2259	2180	

* Provisional

POLIOMYELITIS - Three cases of poliomyelitis (one paralytic) were reported this week, continuing the low incidence of this disease during 1963. The figure below demonstrates the comparative incidence of poliomyelitis in 1958, 1960, 1962, and 1963.

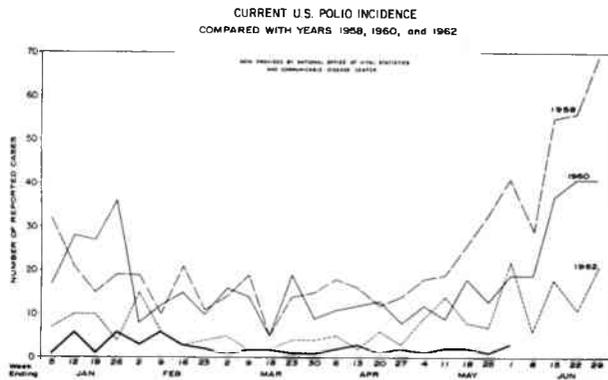


Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous week)

Disease	22nd Week			Cumulative		
	Ended	Ended	Median 1958 - 1962	First 22 weeks		Median 1958 - 1962
	June 1, 1963	June 2, 1962		1963	1962	
Aseptic meningitis.....	25	16	---	489	411	---
Brucellosis.....	9	3	11	145	161	307
Diphtheria.....	1	5	9	112	199	307
Encephalitis, infectious.....	22	32	31	622	648	618
Hepatitis, infectious and serum.....	624	904	633	20,953	28,299	16,917
Measles.....	13,000	16,375	15,553	292,431	369,960	316,180
Meningococcal infections.....	43	35	35	1,267	1,065	1,172
Poliomyelitis, total.....	3	22	22	56	152	331
Paralytic.....	1	20	20	48	115	237
Nonparalytic.....	-	2	2	2	21	60
Unspecified.....	2	-	-	6	16	34
Streptococcal sore throat and Scarlet fever.....	5,508	5,729	---	195,593	179,432	---
Tetanus.....	4	4	---	86	73	---
Tularemia.....	6	8	---	86	105	---
Typhoid fever.....	3	13	10	149	193	226
Typhus fever, tick-borne, (Rocky Mountain spotted).....	1	6	---	19	28	---
Rabies in Animals.....	67	72	64	1,731	1,861	1,776

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	1	Psittacosis:	27
Botulism:	5	Rabies in Man:	-
Malaria: Md. - 1, Calif. - 1	41	Smallpox:	-
Plague:	-	Typhus, murine:	3

EPIDEMIOLOGICAL REPORTS

C. *Perfringens* Outbreaks – California

An extensive outbreak of food-borne illness attributed to *Clostridium perfringens* occurred in January in Riverside County. The outbreak involved children 5 to 14 years of age in eight different schools and followed the ingestion of a school lunch cooked in a central kitchen and distributed by truck to the schools.

Of 1200 persons eating the suspect food at lunch, 350 became acutely ill within one to 12 hours later. The illness was characterized by vomiting, diarrhea, marked prostration and dehydration.

C. perfringens was isolated in large numbers by anaerobic culture from samples of turkey served at the meal.

The outbreak was attributed to the prolonged period involved between cooking, distribution and serving coupled with inadequate temperature controls at all stages.

(Reported by Dr. Philip K. Condit and Dr. Rebecca L. Proctor, Bureau of Communicable Diseases, California Department of Public Health.)

Equine Influenza – Follow-up Report

Outbreaks of febrile respiratory disease in horses, which first appeared in Florida in mid-February, have continued to occur at racing meets, horse shows and stables through the northeast and mid-western parts of the country. (See MMWR, Vol. 12, pp. 157 and 167.)

Approximately 40 thoroughbred racing meets have been held since the Florida outbreak. Reports have been received from 15, of which 11 have had definite outbreaks of the disease.

Of 24 harness racing meets thus far in 1963, 4 had completed their racing program by mid-April and reported no equine influenza. Of the 20 meets held since mid-April, 16 have had serious epidemics of the disease; reports have not been received on the remaining 4. The first harness track affected was in New York on April 12. In late April and May, the disease appeared at numerous other tracks in the northeastern, eastern and mid-western States.

Western racing dates generally fall later in the year than in the eastern part of the United States, and cases of respiratory disease in horses have just begun to appear in States west of the Mississippi.

Viral isolates have been obtained from horses in Kentucky, Florida and Michigan. All grow rapidly in chick embryos. Results of complement fixation tests indicate that the causative agent belongs to the Influenza A virus group. Results of hemagglutination-inhibition tests run with all available anti-sera are negative, indicating that this is a previously unknown strain of Type A virus.

There is no evidence of widespread infection in man. Investigations of possible human illness related to these outbreaks are currently underway.

(Reported by Drs. E. R. Doll and J. T. Bryan, University of Kentucky; Drs. M. M. Sigel and G. H. Waddell, University of Miami; the Department of Epidemiology, University of Michigan; the Respiro-virus Unit, Laboratory Branch, CDC; Veterinarians and Epidemiologists of the State Health Departments; and teams from the Communicable Disease Center.)

Salmonella derby Epidemic – Follow-up

A total of 115 additional isolations of *S. derby* have been reported from the 50 States during the past week. Of these, 109 have been reported from the State of Pennsylvania (See MMWR, Vol. 12, pages 167, 173).

In all, 223 hospital-associated *S. derby* isolations have been reported from Pennsylvania, 97 from symptomatic patients and employees, 98 from asymptomatic patients and employees; 28 remain under investigation. A breakdown of this data by hospital is presented in the table.

ISOLATIONS OF SALMONELLA DERBY FROM PATIENTS AND HOSPITAL EMPLOYEES IN PENNSYLVANIA WITH AND WITHOUT SYMPTOMS

Symptomatic	Asymptomatic	Unknown	Total
59	42	24	125
22	33	4	59
9	23	0	32
3	0	0	3
2	0	0	2
2	0	0	2
97	98	28	223

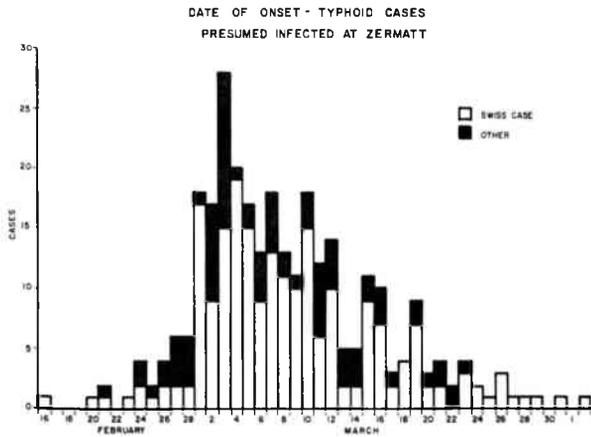
None of the isolations of *S. derby* from non-human sources reported in 1963 have as yet revealed an association with the present outbreak.

INTERNATIONAL NOTES

Typhoid Fever – Zermatt, Switzerland

Supplementary data regarding the recent typhoid epidemic originating in Zermatt, Switzerland has been provided by Dr. Reimert Ravenholt, Epidemiologist, Division of Foreign Quarantine, Paris.

To date, 347 cases have been reported from 10 different countries. There have been three deaths, two in Switzerland and one in England. The epidemic commenced on or about February 20, reached a peak on March 3 and declined through the end of March. The epidemic curve based on 297 Swiss, British, German, U.S. and Dutch cases is shown in the accompanying graph.



Based on the time periods during which those who developed typhoid had visited Zermatt, it is believed that the principle dissemination of the infection took place between February 13 and 22. In addition to 2000 villagers and transient workers, there were an estimated 8000 visitors during this period. Because of the relative inaccessibility of Zermatt, most visitors stay at least overnight in the town. Although data regarding the nationality of hotel guests for 1963 are not yet available, published figures for February, 1962 regarding hotel "guest-nights," by nationality, give a rough appraisal of the geographic dispersion of the visitors.

HOTEL GUEST-NIGHTS, FEBRUARY 1962 AND TYPHOID CASES 1963

Guest Nationality	Number Hotel Guest-nights	Reported Cases
Switzerland	20,613	212
Germany	16,533	23
United Kingdom	10,567	73
France	9,940	13
U.S.A and Canada	9,472	12
Belgium	2,416	1
Italy	2,361	4
Netherlands	1,365	5
Austria	584	3
Other European	1,174	1
Other	320	0
Total	75,345	347

At Zermatt, the cases occurred among visitors who had resided throughout the village during their visit; there was no apparent concentration in any one area.

The explosiveness of the outbreak and the wide dissemination of exposures throughout the town suggested water as the probable source of infection. Bacteriological examination of water during March revealed a high content of coliform organisms. Although chlorination of some water sources entering Zermatt was routinely carried out, it was considered inadequate. Chlorine levels were increased fourfold in mid-March when the problem was first suspected.

The means of contamination of the water is not clear. Several hundred Italian laborers working on various hydroelectric projects reside on the Zermatt watersheds. Many came from endemic areas in Italy; one is known to have developed typhoid fever during February. In addition to possible contamination of the watershed coupled with inadequate chlorination, there may also have been contamination through the water distribution system. One major defect was found in a principle water main.

Swiss authorities are actively pursuing their investigations. More complete data will be available in the future.

Smallpox - Stockholm

Three additional cases, two hospital acquired, were identified last week bringing to 19 the total number of smallpox cases comprising the current outbreak, according to information made available by Dr. Bo Zetterberg, Chief, Epidemiology Division, State Bacteriology Laboratory, Stockholm.

Two of the three cases are actually part of the second generation of transmission (See MMWR Vol. 12, pg. 174), having now been identified retrospectively by serologic means. Neither patient developed a rash. Both were nurses in the Stockholm Infectious Disease Hospital

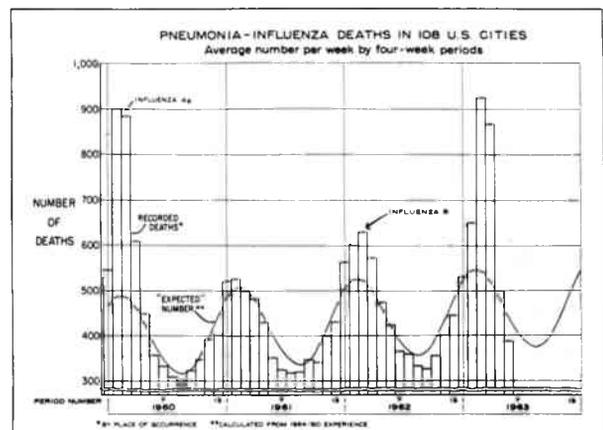
(Continued on page 188)

SUMMARY OF PNEUMONIA AND INFLUENZA DEATHS

The weekly average number of pneumonia-influenza deaths for the four-week period ending June 1 was 387 as compared with an expected weekly average of 442.

PNEUMONIA-INFLUENZA DEATHS IN 108 CITIES

	WEEK ENDING				4 Week Total	Weekly Average
	5/11	5/18	5/25	6/1		
Observed	422	408	373	346	1,549	387
Expected	457	447	437	428	1,769	442
Excess	- 35	- 39	- 64	- 82	-220	- 55



(See table, page 187)

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Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JUNE 1, 1963 AND JUNE 2, 1962

Area	Poliomyelitis, total cases				Poliomyelitis, paralytic				Poliomyelitis, nonparalytic		Aseptic Meningitis	
	22nd week		Cumulative First 22 weeks		22nd week		Cumulative First 22 weeks		22nd week		22nd week	
	1963	1962	1963	1962	1963	1962	1963	1962	1963	1962	1963	1962
UNITED STATES.....	3	22	56	152	1	20	48	115	-	2	25	16
NEW ENGLAND.....	-	-	-	1	-	-	-	1	-	-	-	-
Maine.....	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island.....	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	1	-	-	-	1	-	-	-	-
MIDDLE ATLANTIC.....	2	3	8	33	-	3	6	20	-	-	2	2
New York.....	-	2	4	32	-	2	4	19	-	-	2	1
New Jersey.....	-	1	1	1	-	1	1	1	-	-	-	-
Pennsylvania.....	2	-	3	-	-	-	1	-	-	-	-	1
EAST NORTH CENTRAL.....	-	-	14	10	-	-	11	6	-	-	2	2
Ohio.....	-	-	4	4	-	-	3	4	-	-	1	1
Indiana.....	-	-	1	3	-	-	-	2	-	-	-	-
Illinois.....	-	-	6	2	-	-	5	-	-	-	-	-
Michigan.....	-	-	2	-	-	-	2	-	-	-	1	1
Wisconsin.....	-	-	1	1	-	-	1	-	-	-	-	-
WEST NORTH CENTRAL.....	-	-	2	7	-	-	2	4	-	-	2	-
Minnesota.....	-	-	1	1	-	-	1	1	-	-	2	-
Iowa.....	-	-	-	3	-	-	-	2	-	-	-	-
Missouri.....	-	-	1	3	-	-	1	1	-	-	-	-
North Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	-	-	-	-	-	-	-	-	-	-
Kansas.....	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC.....	-	-	6	11	-	-	5	9	-	-	4	3
Delaware.....	-	-	-	-	-	-	-	-	-	-	1	-
Maryland.....	-	-	-	-	-	-	-	-	-	-	-	-
District of Columbia..	-	-	-	1	-	-	-	-	-	-	-	-
Virginia.....	-	-	1	2	-	-	1	2	-	-	-	2
West Virginia.....	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina.....	-	-	2	2	-	-	2	2	-	-	-	-
South Carolina.....	-	-	-	-	-	-	-	-	-	-	-	-
Georgia.....	-	-	1	2	-	-	-	2	-	-	-	-
Florida.....	-	-	2	4	-	-	2	3	-	-	3	1
EAST SOUTH CENTRAL.....	-	1	3	5	-	1	2	3	-	-	1	-
Kentucky.....	-	1	-	2	-	1	-	2	-	-	-	-
Tennessee.....	-	-	1	2	-	-	1	-	-	-	-	-
Alabama.....	-	-	2	1	-	-	1	1	-	-	1	-
Mississippi.....	-	-	-	-	-	-	-	-	-	-	-	-
WEST SOUTH CENTRAL.....	1	18	14	62	1	16	14	53	-	2	3	-
Arkansas.....	-	-	-	1	-	-	-	1	-	-	-	-
Louisiana.....	1	-	12	5	1	-	12	5	-	-	-	-
Oklahoma.....	-	-	-	1	-	-	-	-	-	-	-	-
Texas.....	-	18	2	55	-	16	2	47	-	2	3	-
MOUNTAIN.....	-	-	-	7	-	-	-	6	-	-	-	4
Montana.....	-	-	-	2	-	-	-	1	-	-	-	-
Idaho.....	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming.....	-	-	-	1	-	-	-	1	-	-	-	-
Colorado.....	-	-	-	-	-	-	-	-	-	-	-	4
New Mexico.....	-	-	-	-	-	-	-	-	-	-	-	-
Arizona.....	-	-	-	3	-	-	-	3	-	-	-	-
Utah.....	-	-	-	1	-	-	-	1	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	-	-	9	16	-	-	8	13	-	-	11	5
Washington.....	-	-	-	1	-	-	-	-	-	-	-	-
Oregon.....	-	-	1	1	-	-	1	1	-	-	-	-
California.....	-	-	8	15	-	-	-	12	-	-	11	5
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	-	1	3	6	-	1	3	6	-	-	-	4

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Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JUNE 1, 1963 AND JUNE 2, 1962 - (Continued)

Area	Brucellosis		Diphtheria		Encephalitis, infectious		Hepatitis, infectious and serum				Measles	
	22nd week	Cumulative 22 weeks	22nd week	Cumulative 22 weeks	22nd week		22nd week			22nd week		
							Under 20 yr.	20 & over	Total			
	1963	1963	1963	1963	1963	1962	1963	1963	1962	1963	1962	
UNITED STATES.....	9	145	1	112	22	32	324	278	624	904	13,000	16,375
NEW ENGLAND.....	-	-	-	4	1	3	32	25	62	40	477	2,310
Maine.....	-	-	-	-	1	-	20	13	33	16	11	245
New Hampshire.....	-	-	-	-	-	-	3	1	4	1	2	7
Vermont.....	-	-	-	-	-	-	-	-	-	-	61	115
Massachusetts.....	-	-	-	2	-	3	5	7	15	18	212	985
Rhode Island.....	-	-	-	2	-	-	-	-	2	1	40	195
Connecticut.....	-	-	-	-	-	-	4	4	8	4	151	763
MIDDLE ATLANTIC.....	-	4	-	19	5	13	63	86	149	145	2,329	3,255
New York.....	-	3	-	13	1	6	33	52	85	62	957	1,521
New Jersey.....	-	-	-	1	-	-	3	12	15	19	546	1,410
Pennsylvania.....	-	1	-	5	4	7	27	22	49	64	826	324
EAST NORTH CENTRAL.....	-	10	-	11	2	6	58	53	112	193	5,615	3,151
Ohio.....	-	-	-	1	1	1	10	13	24	65	539	621
Indiana.....	-	1	-	3	-	-	10	8	18	23	216	332
Illinois.....	-	8	-	3	1	3	5	7	12	38	684	778
Michigan.....	-	1	-	3	-	-	32	23	55	65	1,862	969
Wisconsin.....	-	-	-	1	-	2	1	2	3	2	2,314	451
WEST NORTH CENTRAL.....	4	102	1	32	-	1	6	8	14	37	319	416
Minnesota.....	-	7	-	15	-	-	2	3	5	16	44	94
Iowa.....	4	75	-	1	-	-	1	1	2	9	124	100
Missouri.....	-	4	-	-	-	-	1	2	3	4	78	62
North Dakota.....	-	-	-	1	-	-	1	-	1	-	73	156
South Dakota.....	-	5	-	9	-	-	-	1	1	1	-	-
Nebraska.....	-	5	1	5	-	-	-	-	-	2	-	4
Kansas.....	-	6	-	-	-	1	1	1	2	5	NN	NN
SOUTH ATLANTIC.....	2	4	-	21	5	-	35	18	53	143	1,054	1,060
Delaware.....	-	-	-	-	-	-	1	-	1	-	51	29
Maryland.....	-	-	-	-	2	-	4	3	7	13	65	141
District of Columbia..	-	-	-	-	-	-	2	-	2	4	2	6
Virginia.....	2	2	-	-	-	-	3	2	5	30	213	341
West Virginia.....	-	-	-	1	1	-	13	2	15	5	511	341
North Carolina.....	-	1	-	1	-	-	10	5	15	52	98	12
South Carolina.....	-	-	-	4	1	-	1	-	1	7	13	49
Georgia.....	-	-	-	7	-	-	-	1	1	10	8	6
Florida.....	-	1	-	8	1	-	1	5	6	22	93	135
EAST SOUTH CENTRAL.....	-	4	-	9	-	1	57	23	80	102	510	933
Kentucky.....	-	-	-	-	-	-	8	3	11	24	166	206
Tennessee.....	-	3	-	2	-	-	21	6	27	46	326	679
Alabama.....	-	1	-	7	-	-	23	3	26	17	17	28
Mississippi.....	-	-	-	-	-	1	5	11	16	15	1	20
WEST SOUTH CENTRAL.....	1	10	-	13	1	3	19	10	29	76	442	1,420
Arkansas.....	-	3	-	1	-	1	1	2	3	15	41	5
Louisiana.....	-	-	-	2	-	-	4	2	6	16	27	1
Oklahoma.....	-	2	-	5	-	1	-	-	-	3	-	17
Texas.....	1	5	-	5	1	1	14	6	20	42	374	1,397
MOUNTAIN.....	1	4	-	1	1	-	4	3	22	32	1,170	1,319
Montana.....	-	-	-	-	-	-	1	-	1	3	36	436
Idaho.....	-	-	-	-	-	-	-	-	4	1	115	67
Wyoming.....	-	1	-	-	-	-	-	-	-	2	19	51
Colorado.....	-	-	-	-	-	-	-	-	4	7	379	393
New Mexico.....	-	-	-	1	1	-	2	1	3	5	NN	NN
Arizona.....	1	2	-	-	-	-	-	-	7	5	501	190
Utah.....	-	1	-	-	-	-	1	2	3	8	120	110
Nevada.....	-	-	-	-	-	-	-	-	-	1	-	72
PACIFIC.....	1	7	-	2	7	5	50	52	103	136	1,084	2,511
Washington.....	-	-	-	-	-	2	7	9	17	26	75	984
Oregon.....	-	2	-	2	-	-	5	3	8	21	-	584
California.....	1	4	-	2	5	3	36	40	76	88	902	929
Alaska.....	-	-	-	-	-	-	2	-	2	1	3	8
Hawaii.....	-	1	-	-	-	-	-	-	-	-	104	42
Puerto Rico.....	-	-	-	9	-	-	6	2	8	25	5	86

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Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JUNE 1, 1963 AND JUNE 2, 1962 - (Continued)

Area	Meningococcal Infections		Streptococcal Sore Throat & Scarlet Fever		Tetanus	Tickborne Typhus (Rocky Mt. Spotted)	Tularemia	Typhoid Fever		Rabies in Animals		
	22nd wk.	Cumulative 22 weeks	22nd week		22nd wk.	22nd wk.	22nd wk.	22nd wk.	Cumulative 22 weeks	22nd week		Cumulative 22 weeks
	1963	1963	1963	1962	1963	1963	1963	1963	1963	1963	1962	1963
UNITED STATES....	43	1,267	5,508	5,729	4	1	6	3	149	67	72	1,731
NEW ENGLAND.....	-	79	649	384	-	-	-	-	6	1	-	18
Maine.....	-	13	108	16	-	-	-	-	-	-	-	1
New Hampshire.....	-	2	14	2	-	-	-	-	-	-	-	12
Vermont.....	-	2	8	-	-	-	-	-	1	1	-	5
Massachusetts.....	-	37	123	93	-	-	-	-	4	-	-	-
Rhode Island.....	-	7	42	16	-	-	-	-	-	-	-	-
Connecticut.....	-	18	354	257	-	-	-	-	1	-	-	-
MIDDLE ATLANTIC....	3	176	456	291	1	-	-	-	18	1	2	45
New York.....	1	76	271	180	-	-	-	-	14	-	-	33
New Jersey.....	1	26	66	39	-	-	-	-	1	-	-	-
Pennsylvania.....	1	74	119	72	1	-	-	-	3	1	2	12
EAST NORTH CENTRAL..	4	203	667	549	-	-	-	-	8	14	15	267
Ohio.....	2	59	48	57	-	-	-	-	2	6	10	157
Indiana.....	-	24	89	69	-	-	-	-	1	4	4	30
Illinois.....	2	28	72	155	-	-	-	-	3	3	1	39
Michigan.....	-	66	235	117	-	-	-	-	1	-	-	26
Wisconsin.....	-	26	223	151	-	-	-	-	1	1	-	15
WEST NORTH CENTRAL..	3	75	192	131	-	-	1	-	9	21	18	403
Minnesota.....	-	13	13	25	-	-	-	-	3	5	-	107
Iowa.....	-	4	52	37	-	-	-	-	1	10	10	147
Missouri.....	1	27	4	1	-	-	-	-	5	4	3	74
North Dakota.....	-	3	86	55	-	-	-	-	-	1	3	12
South Dakota.....	-	4	13	3	-	-	-	-	-	-	2	49
Nebraska.....	2	19	-	-	-	-	-	-	-	1	-	6
Kansas.....	-	5	24	10	-	-	1	-	-	-	-	8
SOUTH ATLANTIC.....	11	232	391	397	-	-	-	1	31	2	3	278
Delaware.....	1	2	4	12	-	-	-	-	1	-	-	-
Maryland.....	4	37	50	28	-	-	-	-	3	-	-	-
Dist. of Columbia..	-	4	2	-	-	-	-	-	-	-	-	-
Virginia.....	4	58	118	131	-	-	-	-	4	2	1	102
West Virginia.....	-	13	123	62	-	-	-	-	5	-	1	82
North Carolina.....	1	39	16	8	-	-	-	1	4	-	-	4
South Carolina.....	-	13	11	6	-	-	-	-	2	-	-	6
Georgia.....	-	12	3	4	-	-	-	-	2	-	-	33
Florida.....	1	54	64	146	-	-	-	-	10	-	1	51
EAST SOUTH CENTRAL..	-	100	773	593	-	-	-	-	13	9	8	146
Kentucky.....	-	21	7	27	-	-	-	-	1	4	4	71
Tennessee.....	-	45	725	517	-	-	-	-	8	5	4	63
Alabama.....	-	18	19	-	-	-	-	-	4	-	-	12
Mississippi.....	-	16	22	49	-	-	-	-	-	-	-	-
WEST SOUTH CENTRAL..	5	135	559	620	1	1	5	1	27	10	24	363
Arkansas.....	-	8	-	3	-	-	5	1	13	1	5	23
Louisiana.....	2	55	15	1	-	-	-	-	5	1	-	35
Oklahoma.....	1	27	-	-	-	1	-	-	2	1	2	32
Texas.....	2	45	544	616	1	-	-	-	7	7	17	273
MOUNTAIN.....	2	42	929	1,052	-	-	-	-	2	7	-	37
Montana.....	-	3	14	28	-	-	-	-	-	-	-	-
Idaho.....	-	3	79	150	-	-	-	-	-	-	-	-
Wyoming.....	-	1	9	28	-	-	-	-	-	-	-	-
Colorado.....	-	11	331	401	-	-	-	-	1	-	-	-
New Mexico.....	1	3	281	222	-	-	-	-	1	6	-	21
Arizona.....	1	7	104	144	-	-	-	-	-	1	-	16
Utah.....	-	11	111	73	-	-	-	-	-	-	-	-
Nevada.....	-	3	-	6	-	-	-	-	-	-	-	-
PACIFIC.....	15	225	892	1,712	2	-	-	1	35	2	2	174
Washington.....	-	16	248	483	-	-	-	-	-	-	-	-
Oregon.....	2	13	13	12	1	-	-	-	2	-	1	1
California.....	13	186	530	1,148	1	-	-	1	30	2	1	164
Alaska.....	-	5	-	60	-	-	-	-	1	-	-	9
Hawaii.....	-	5	101	9	-	-	-	-	2	-	-	-
Puerto Rico.....	-	4	13	7	2	-	-	1	8	-	-	6

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Table 4 (B). REPORTED PNEUMONIA-INFLUENZA DEATHS IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)^o

Area	For weeks ending				Area	For weeks ending			
	5/11	5/18	5/25	6/1		5/11	5/18	5/25	6/1
NEW ENGLAND:					SOUTH ATLANTIC:				
Boston, Mass.....	6	16	1	7	Atlanta, Ga.....	2	5	4	5
Bridgeport, Conn.....	3	4	4	1	Baltimore, Md.....	3	4	5	1
Cambridge, Mass.....	0	0	0	0	Charlotte, N.C.....	2	1	1	2
Fall River, Mass.....	1	3	2	1	Jacksonville, Fla.....	2	1	0	1
Hartford, Conn.....	1	0	0	1	Miami, Fla.....	1	0	0	0
Lowell, Mass.....	3	3	4	2	Norfolk, Va.....	3	4	0	2
Lynn, Mass.....	1	0	1	2	Richmond, Va.....	5	1	1	4
New Bedford, Mass.....	3	0	4	1	Savannah, Ga.....	3	2	3	3
New Haven, Conn.....	0	1	0	0	St. Petersburg, Fla.....	6	2	3	3
Providence, R.I.....	2	2	4	2	Tampa, Fla.....	3	2	7	4
Somerville, Mass.....	1	1	0	0	Washington, D.C.....	7	9	8	5
Springfield, Mass.....	4	6	7	6	Wilmington, Del.....	0	5	6	2
Waterbury, Conn.....	0	0	0	0	EAST SOUTH CENTRAL:				
Worcester, Mass.....	5	1	3	8	Birmingham, Ala.....	0	1	3	1
MIDDLE ATLANTIC:					Chattanooga, Tenn.....	4	0	2	1
Albany, N.Y.....	1	3	1	3	Knoxville, Tenn.....	0	2	1	0
Allentown, Pa.....	2	2	0	0	Louisville, Ky.....	4	8	7	2
Buffalo, N.Y.....	6	3	2	6	Memphis, Tenn.....	1	3	6	7
Camden, N.J.....	1	3	3	1	Mobile, Ala.....	1	3	0	0
Elizabeth, N.J.....	1	2	0	2	Montgomery, Ala.....	1	5	3	3
Erie, Pa.....	3	3	3	4	Nashville, Tenn.....	0	5	4	5
Jersey City, N.J.....	2	3	2	4	WEST SOUTH CENTRAL:				
Newark, N.J.....	4	2	5	4	Austin, Tex.....	4	3	5	5
New York City, N.Y.....	80	71	50	51*	Baton Rouge, La.....	2	1	3	3
Paterson, N.J.....	5	1	4	0	Corpus Christi, Tex.....	0	0	0	0
Philadelphia, Pa.....	11	12	11	8	Dallas, Tex.....	2	3	5	5
Pittsburgh, Pa.....	6	10	9	7	El Paso, Tex.....	2	2	4	3
Reading, Pa.....	3	4	1	4	Fort Worth, Tex.....	0	1	4	3
Rochester, N.Y.....	6	4	8	7	Houston, Tex.....	4	3	0	9
Schenectady, N.Y.....	1	1	0	1	Little Rock, Ark.....	1	3	5	4
Scranton, Pa.....	0	1	1	0	New Orleans, La.....	7	4	3	0
Syracuse, N.Y.....	3	0	0	1	Oklahoma City, Okla.....	3	1	2	1
Trenton, N.J.....	5	4	2	5	San Antonio, Tex.....	1	1	3	3
Utica, N.Y.....	0	3	2	1	Shreveport, La.....	1	5	2	3
Yonkers, N.Y.....	3	1	0	2	Tulsa, Okla.....	7	4	6	4
EAST NORTH CENTRAL:					MOUNTAIN:				
Akron, Ohio.....	1	0	2	0	Albuquerque, N. Mex.....	3	3	2	4
Canton, Ohio.....	3	3	3	2	Colorado Springs, Colo...	3	1	1	5
Chicago, Ill.....	32	28	17	26	Denver, Colo.....	5	2	4	7
Cincinnati, Ohio.....	5	3	3	2	Ogden, Utah.....	0	2	2	1
Cleveland, Ohio.....	4	4	2	1	Phoenix, Ariz.....	5	3	2	2
Columbus, Ohio.....	1	4	4	1	Pueblo, Colo.....	0	1	1	1
Dayton, Ohio.....	3	1	1	1	Salt Lake City, Utah.....	3	0	1	1
Detroit, Mich.....	13	10	12	9	Tucson, Ariz.....	1	0	0	0
Evansville, Ind.....	1	3	2	4	PACIFIC:				
Flint, Mich.....	1	1	7	0	Berkeley, Calif.....	0	0	0	0
Fort Wayne, Ind.....	2	6	4	0	Fresno, Calif.....	4	1	2	1*
Gary, Ind.....	3	3	2	0	Glendale, Calif.....	1	0	0	0
Grand Rapids, Mich.....	4	0	6	3	Honolulu, Hawaii.....	1	3	1	1
Indianapolis, Ind.....	3	2	8	2	Long Beach, Calif.....	0	0	0	2
Madison, Wis.....	0	0	0	0	Los Angeles, Calif.....	23	19	14	7
Milwaukee, Wis.....	4	3	5	4	Oakland, Calif.....	5	5	2	2
Peoria, Ill.....	1	0	1	0	Pasadena, Calif.....	0	0	1	2
Rockford, Ill.....	0	2	7	2	Portland, Oreg.....	2	5	0	0
South Bend, Ind.....	4	1	0	1	Sacramento, Calif.....	2	0	0	1
Toledo, Ohio.....	7	9	4	4	San Diego, Calif.....	3	3	3	1
Youngstown, Ohio.....	2	1	1	0	San Francisco, Calif.....	7	4	2	3
WEST NORTH CENTRAL:					San Jose, Calif.....	8	4	7	4
Des Moines, Iowa.....	0	1	1	2	Seattle, Wash.....	8	3	4	3
Duluth, Minn.....	1	0	0	1	Spokane, Wash.....	0	1	1	0
Kansas City, Kans.....	5	0	2	2*	Tacoma, Wash.....	0	1	1	0
Kansas City, Mo.....	2	5	4	3	San Juan, P.R.....				
Lincoln, Nebr.....	4	1	2	0	3	5	2	1	
Minneapolis, Minn.....	3	1	0	0	Current Week Mortality for 108 Selected Cities				
Omaha, Nebr.....	2	3	2	2	4(A) Total Mortality, all ages.....	9,817			
St. Louis, Mo.....	6	6	6	3	4(B) Pneumonia-Influenza Deaths, all ages.....	346			
St. Paul, Minn.....	2	4	2	3	4(C) Total Deaths under 1 Year of Age.....	748			
Wichita, Kans.....	1	4	1	3	4(D) Total Deaths, Persons 65 years and over.....	5,376			

*Estimate - based on average percent of divisional total.
Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.

in close contact with the smallpox cases admitted there. The first, a 44-year-old female, cared for Case No. 3 from April 27 to May 7 daily, including bathing and local treatment of the lesions. On May 9, the nurse developed fever and headache, as well as nausea and low back pain. Except for May 13 and 14, she continued to work throughout her illness until isolated on May 18. She was found to have a very high hemagglutination inhibition antibody titer suggesting recent infection. Her last vaccination prior to onset of illness was in 1962. She was also in daily contact with Cases 6 and 14, and directly or indirectly may have transmitted the disease to Case 14.

The second nurse, a 22-year-old female, also employed in the Stockholm Infectious Disease Hospital, had daily contact with Case No. 2 during the period April 27-May 7. On May 11, she experienced onset of headache, fever, and sore throat and was absent from work May 11 through May 13. No rash developed. A high HAI titer verified the diagnosis of smallpox. She had previously been vaccinated in 1950 but at the time of exposure had not yet been revaccinated under the hospital's annual re-vaccination program.

The final additional case is that of a 47-year-old man who had onset of illness May 21 while already isolated as a contact. He is the father of Case 7, the first identified case. He had never been vaccinated until 7 days before onset of illness.

The total number of hospital-acquired cases now stands at 6, one-third of the secondary indigenous cases. The evidence supports close contact as the primary requisite for spread both in the hospital and in the community. The disease has spread among persons vaccinated more than 7 years prior to the time of their exposure with 2 notable exceptions, both patients with mild disease without rash. The table below presents data on the vaccination status of the 18 indigenous cases:

Time Lapse Since Last Vaccinated	Indigenous Cases	Clinical Characteristics		
		Rash	No Rash	Deaths
7 yrs. or less	2	-	2	-
8-14 yrs.	3	1	2	-
15-24 yrs.	2	2	-	-
25-50 yrs.	4	3	1	-
More than 50 years	4	4	-	2
Never	3	3	-	1
Totals	18	13	5	3

INTERNATIONAL NOTES - QUARANTINE MEASURES
 Immunization Information for International Travel

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The following information should be added to the list of Yellow Fever Vaccination Centers in Section 6:

CITY: New York, New York
CENTER: Washington Heights District Health Center
 New York City Department of Health
 600 W. 168th Street
 Tel. WA 7-6300
CLINIC HOURS: Monday-Friday, 10-11 a.m.
FEE: No

Library
 81
 7 61
 CDC

U. S. DEPARTMENT OF
 HEALTH, EDUCATION, AND WELFARE
 PUBLIC HEALTH SERVICE
 Communicable Disease Center
 Atlanta 22, Georgia
 Official Business



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